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ROGUE RIVER WATERSHED

WATER SUPPLY OUTLOOK

as of

APRIL 1, 1957

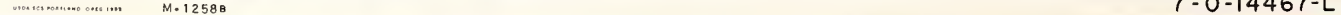


U. S. SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

S U M M A R Y

For details
see page:

- 1-2 Water Supply Outlook: A fair water supply is in sight for all lands served from major streams and reservoirs but good summer rains can improve this outlook. Other streams coming from watersheds at moderate or lower elevations are nearly bare of snow now and flow will definitely be shorter than usual.
- 3 Streamflow Forecasts: Forecasts vary from 86 percent average on Applegate River to a high of 94 percent on Little Butte Creek. The Rogue at Raygold is to discharge 90 percent of the average and Illinois River about 93 percent average.
- 3 Reservoir Storage: The four main reservoirs, Fourmile, Fish, Hyatt and Emigrant are all full. So is Willow Creek reservoir belonging to the City of Medford.
- 3 Snow-Cover: Basin-wide the water content of snow is up 20 percent from the March 1 value to 79 percent of average. Snow is only 60 percent average on the Illinois River, 83 percent on the Applegate and 84 percent on the Upper Rogue.
- 4 Soil-Moisture: Fall rains, mid-winter snow-melt, and much above normal March rains have brought soil-moisture up to an excellent condition throughout the watershed.



WATER SUPPLY OUTLOOK
For April-September, 1957^a

Source of Water	Acreage Irrigated	Outlook
Althouse Creek	250	Fair water supplies with some late-season shortages.
Ashland Creek	302	A fair supply but short in late-season.
Applegate River (Big)	6,687	A fair water supply with some late-season shortages in most areas.
Applegate River (Little)	644	Only a fair water supply. Late-season shortages.
Bear Creek	375	Late-season shortages.
Butte Creek (Big)	5,222	Should furnish good supplies for Eagle Point Irrigation District.
Elk Creek	136	Late-season shortages.
Evans Creek	800	Late-season shortages.
Fourmile and Fishlake Reservoirs	13,183	Medford and Rogue River Valley Irrigation Districts will likely have late-season shortages unless above normal summer rains are received.
Grave Creek	125	Late-season shortages
Hyatt and Emigrant Reservoirs	10,317	Talent Irrigation District will have a late-season shortage unless summer rains are above normal.
Illinois River	400	Late-season shortages by mid-August unless better than average summer rains.

a - Assuming normal meteorological conditions during the April - September period.

WATER SUPPLY OUTLOOK (Cont'd.)

Source of Water	Acreage Irrigated	Outlook
Illinois River, East Fork	900	Late-season shortages by mid-August unless better than average summer rains.
Illinois River, West Fork	200	Late-season shortages by early August unless summer rains are good.
Jump-off Joe Creek	210	Late streamflow will fall off sharply much earlier than usual.
Neil Creek	1,178	Late-season shortages expected but good summer rains could improve water supply considerably.
Red Blanket Creek	313	Nearly normal water supplies.
Rough and Ready Creek	200	Late streamflow will fall off sharply much earlier than usual.
Rogue River	14,088	Adequate water for usual irrigation. Grants Pass Irrigation District might possibly have to go to canal alternation near season's end unless adequate summer rains are received.
Slate Creek	200	Late-season streamflow will be short.
Sucker Creek	1,042	Fair water supplies but late-season flow will be short unless good summer rains are received.
Thompson Creek	861	Shortages by early August unless summer rains are unusually good.
Wagner Creek	445	Only fair water supply - McDonald Ditch will be cut about mid-July.
Williams Creek	720	Shortages by early August unless summer rains are unusually good.

STREAMFLOW FORECASTS ^a
as of April 1, 1957

Gaging Station		Seasonal Streamflow in 1000 a.f. 1957		
		Forecast	Forecast	15-Yr. as % of
No.	Name	1957	Period	15-Yr. Avg.
7294	Applegate R., nr. Copper	100.0	Apr-Sept.	116.0 ^b 86
8321	Fourmile Lake net Inflow*	7.0	Apr-Sept.	7.0 100
8320	Hyatt Res. net Inflow*	c	Apr-Sept.	6.0
712	Illinois R., nr. Kerby	168.0	Apr-Sept.	181.2 93
7230	L. Butte Cr., N.Fk., bel. Fish Lk.*	14.0	Apr-Sept.	14.9 94
722	Rogue R., abv. Prospect*	280.0	Apr-Sept.	316.5 88
	Rogue R., abv. Prospect*	235.0	Apr-July	265.1 89
7217	Rogue R., M. Fk., nr. Prospect*	69.0	Apr-Sept.	74.3 93
	Rogue R., M. Fk., nr. Prospect*	55.0	Apr-July	58.7 94
7282	Rogue R., S. Fk., nr. Prospect*	70.0	Apr-Sept.	76.1 92
	Rogue R., S. Fk., nr. Prospect*	60.0	Apr-July	65.1 92
7277	Rogue R., below South Fork	615.0	Apr-Sept.	680.8 90
	Rogue R., below South Fork	500.0	Apr-July	553.0 90
724	Rogue R., at Raygold nr. Central	815.0	Apr-Sept.	905.6 90
	Rogue R., at Raygold nr. Central	685.0	Apr-July	760.7 90
7292	Rogue R., at Grants Pass	775.0	Apr-Sept.	852.8 ^b 91

* Corrected to natural flow

c No snow surveys made.

b 1938-39 excepted

RESERVOIR STORAGE

Reservoir	Usable Capacity 1000 a.f.	Thousand a.f. in storage about April 1, 1957				
		1957	1956	1955	15-Yr. Avg. 1938-52	1957 as % of 15-Yr. Avg.
Emigrant Gap	8.3	8.3	7.2	3.0	8.0	104
Fish Lake	7.8	7.6	5.1	5.6	5.0	152
Fourmile Lake	16.1	16.6*	9.0	9.9	7.5	221
Hyatt Prairie	16.1	16.6	7.2	10.3	6.7	248

Total (4 Reservoirs)	48.3	49.1	28.5	28.8	27.2	181
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* March 1, 1957 reading.

SNOW COVER
As of April 1, 1957

No.	Snow Course Name	Elev.	1957		Water Content (In.)			1957 as % of 15-Yr. Avg.
			Snow Depth (In.)	Water Content (In.)	1956	1955	15-Yr. Avg. 1938-52	
---	below 4000'	---						
23G1	Goolaway Gap	3050	Report Delayed		8.5	0.0	1.1**	- -
23G2	Goolaway Mtn.	3780	Report Delayed		24.5	6.5	3.7**	- -
23H1	Hazel View	2500	0	0.0	0.0	- -	- -	- -
22G2	Silver Burn	3720	12	4.9	19.8	12.4	11.1	44
22G9	So. Fk. Carial	3500	0	0.0	0.6	0.0	1.6	0
	Average*		--	1.3	6.8	6.2	6.4	20
---	4000' to 6000'	---						
23G4	Althouse	4400	0	0.0	17.7	2.9	6.8	0
22G13	Billie Cr. Div.	5300	Not Surveyed		39.1	23.9	23.4	- -
22F18	Diamond Lake	5315	46	18.8	34.7	23.2	23.0	82
22G14	Fish Lake	4865	Not Surveyed		23.2	12.3	11.7**	- -
22G17	Hobart Lake	5010	Not Surveyed		8.1	0.5	6.3**	- -
22G16	Hyatt Pr. Res.	4900	Not Surveyed		15.0	3.6	9.0	- -
23G6	Oregon Caves	4000	Not Surveyed		- -	0.0	- -	- -
23G5	Page Mountain	4045	0	0.0	19.6	- -	- -	- -
22G20	Siskiyou Summit	4630	0	0.0	8.9	- -	4.0	0
22G1	Whaleback	5140	67	26.8	52.5	32.3	35.1**	76
	Average*		--	11.4	28.4	19.5	19.7	58
---	above 6000'	---						
22G6	Annie Spring	6018	104	42.3	62.9	32.3	47.4	89
22G21	Big Red Mtn.	6500	54	23.5	50.9	21.4	28.6	82
22G12	Fourmile Lake	6000	Not Surveyed		41.0	25.2	- -	- -
23G3	Grayback Pk.	6000	51	19.2	56.3	25.7	25.4	76
22G22	Little Red Mtn.	6500	48	20.9	39.6	15.9	22.3	94
22G5	Park Hdqs.	6450	142	57.1	78.4	41.0	64.8**	88
22H1	Scragg Mtn.	6200	Report Delayed		- -	19.1	29.3**	- -
22G10	Seven Lakes #1	6800	Report Delayed		70.4	53.0	51.2	- -
22G11	Seven Lakes #2	6200	Report Delayed		59.1	40.9	40.8**	- -
22G18	Wagner Butte	6900	Not Surveyed		23.9	12.3	16.9	- -
	Average*		--	32.6	57.6	27.2	37.7	86
	Average* (11 snow courses)		--	19.4	38.4	18.8	24.6	79

** Avg. for less than 15 yrs. of record in 1938-52 period but not less than 5 yrs.

* Only reporting snow courses with a 15 year average used.

SOIL MOISTURE

Soils in:	Fall Status	Current status as of April 1, 1957
Lower Valleys	((
Upper Valleys	(Good	(Excellent
Mountains	((